Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	455	703/8.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 18:30

5/16/2008 6:56:34 PM Page 1

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	1617	(280/5.5\$).cds. and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 17:22
L4	0	(280/5.5\$).ccls. and @ad="20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 18:03
L5	486	(280/5.5\$).ccls. and @ad>"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 18:03

5/16/2008 6:12:24 PM Page 1

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L13	2	(stewart adj platform and spring). clm.	US-PGPUB	OR	OFF	2008/05/16 19:36
L14	1	(parallel adj kinematic and spring). clm.	US-PGPUB	OR	OFF	2008/05/16 19:38
L15	2	(six near degree and spring).clm.	US-PGPUB	OR	OFF	2008/05/16 19:38
L16	1	(six near freedom and spring).clm.	US-PGPUB	OR	OFF	2008/05/16 19:38
L17	1	((six near freedom) and spring).clm.	US-PGPUB	OR	OFF	2008/05/16 19:40
L18	50	(six near degree\$1 and spring).clm.	US-PGPUB	OR	OFF	2008/05/16 19:40
L19	1	(six near freedom and spring\$1). clm.	US-PGPUB	OR	OFF	2008/05/16 19:43
L20	1	((six near freedom) and spring\$1). clm.	US-PGPUB	OR	OFF	2008/05/16 19:45
L21	47	((six near5 freedom) and spring\$1). clm.	US-PGPUB	OR	OFF	2008/05/16 19:45

5/16/2008 7:47:16 PM Page 1

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	576	(six near degree near freedom) and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 14:13
L5	89	L4 and (automobile or suspension or shock or damper)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 14:13
L6	101	(stewart near platform) and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 14:26
L8	27	L6 and (automobile or suspension or shock or damper)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 14:27

5/16/2008 2:28:43 PM Page 1

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L10	64	stewart adj platform and spring	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 19:15
L11	24	stewart adj platform and suspension	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 19:22
L12	96	parallel adj kinematic\$1 and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 19:24

5/16/2008 7:27:22 PM Page 1

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L24	535	(six near degree\$1 near freedom) and (automobile or suspension or damper) and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/16 19:50

5/16/2008 8:20:27 PM Page 1

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	3	(spring near design) and (parallel near mechanism) and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/18 15:28
L3	0	(spring near design) and (stewart near mechanism) and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/18 15:29
L4	0	(spring near design) and (stewart near platform) and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/18 15:29

5/18/2008 3:37:59 PM Page 1

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	66	(hydraulic same actuator) same (force near sensor) and @ad<"20020101"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2008/05/18 17:00

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'stewart platform" spring suspension

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A six degree-of-freedom wrist with pneumatic suspension

SE Salcudean, S Bachmann, D Ben-Dov - Robotics and Automation, 1994. Proceedings., 1994 IEEE ..., 1994 ieeexplore.ieee.org

... of using them in a con-ventional Stewart platform arrangement ... mm (0.25 in) I I Bellows

Spring Rate I ... hystere- sis in the mechanism is the flexural suspension. ...

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A study of the effects of the lower index methods on ADAMS sparse tableau formulation for the ... - all 4 versions »

NV Orlandea - Proceedings of the Institution of Mechanical Engineers, Part ..., 1999 - journals pepublishing.com ... The suspension has a spring and a damper not shown in Fig. 8 for reason of clarity.

As before, for this system the violation of the constraint Fig. ...

Cited by 4 - Related Articles - Web Search

[PS] Development of the NIST Robot Crane Teleoperation Controller - all 2 versions »

NG Dagalakis, JS Albus, RV Bostelman, J Fiala - Robotics and Remote Handling Proceedings, Fifth Topical 1993 - isd mel nist gov

... joystick was another small size Stewart platform mechanism shown in ... applied to a

steel leaf spring plate mounted ... the coordinates of the suspension points, with ...

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Design analysis of a Stewart platform for vehicle emulator systems

Y Gong - 1992 - dspace.mit.edu

... geometric parameters of Stewart platform due to imperfect assembly and ... For VES to simulate more general base system, eg, the suspension ...

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[PDF] Applications of the NIST RoboCrane - all 3 versions »

R Bostelman, J Albus, N Dagalakis, A Jacoff, J ... - Proceedings of the 5th International Symposium on Robotics ..., 1994 - isd.mel.nist.gov

... tubular gantry, containing three upper suspension points for ... Stewart Platform Joystick

Figure 2 - Robocrane Control System ... plate that acted as a leaf-spring ...

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[CITATION] THE DESIGN AND IMPLEMENTATION OF A LABORATORY TEST BED FOR SPACE ROBOTICS: THE VES MOD II Steven ...

U Muller, I Paul, M Cambridge, J Pennington, AT ... - Robotics: Kinematics, Dynamics and Controls: Presented at 1994 - American Society of Mechanical Engineers

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Experimental Simulation of Manipulator Base Compliance - all 7 versions »

H West, N Hootsmans, S Dubowsky, N Stelman - Proceedings of the First International Symposium on ..., 1989 -Springer

... Stewart Platform ...': ... The model used by the emulator was for a vehicle whose

suspension consisted of a combination of springs and dampers. ...

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"stewart platform" spring automobile

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Modeling, simulation, and control of a hydraulic Stewart platform

D Li, SE Salcudean - Robotics and Automation, 1997, Proceedings., 1997 IEEE ..., 1997 - leeexplore.leee.org

... control of the Stewart platform based vehicle emulation system ... For the Stewart platform

considered here, the mass of ,, fric-tion), K is the spring constant of ,,,

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Experimental study of motion control and trajectory planning for aStewart Platform robot manipulator

CC Nouven, SS Antrazi, ZL Zhou, CE Campbell Jr. Robotics and Automation, 1991, Proceedings, 1991 IEEE 1991 - ieeexplore.ieee.org

... Six spring-loaded pistons arranged also in a geometry similar to the Stewart Platform mech- anism are used to suspend the lower compliant plat- form from the ...

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Development of the PNU vehicle driving simulator and its performance evaluation - all 2

versions » MK Park, MC Lee, KS Yoo, K Son, WS Yoo, MC Han - Robotics and Automation, 2001, Proceedings 2001 ICRA.

IEEE ..., 2001 - ieeexplore.ieee.org

... Simulator Studies: The Influence of Vehicle Parameters on ... [9] E. F. Fichter, "A Stewart Platform-based Manipulator ... of the KSME 1998 Spring Annual Meeting A, ...

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Force guided assemblies using a novel parallel manipulator - all 3 versions »

DM Morris, R Hebbar, WS Newman - Robotics and Automation, 2001. Proceedings 2001 ICRA. IEEE ..., 2001 eeexplore.ieee.org

... four assembly examples from automotive automatic transmissions ... Research, Vol6, No

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Stewart-platform-based inlet duct painting system

K Llu. R Gienn, TJ Lawley, FL Lewis - Robotics and Automation, 1993, Proceedings., 1993 IEEE ..., 1993 ieeexplore.ieee.org

... 93 \$3.00 @ 1993 IEEE 106 Stewart-Platform-Based Inlet ... MORGER is an autonomous three wheeled vehicle capable of ... a rather ingenious design of springs and levers ...

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KAIST interactive bicycle simulator - all 13 versions »

DS Kwon, GH Yang, CW Lee, JC Shin, Y Park, B Jung, ... - Robotics and Automation, 2001. Proceedings 2001 ICRA. IEEE ..., 2001 - ieeexplore ieee org

... processors for digital servo control of the Stewart platform have been ... the bicycle

is a two-wheeled vehicle, it can ... we model the tire as a spring-damper system ...

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... ti'r '4' < ,t;tr : I- STITUTE F:B 0o 199 UtiRAIE5 ARC-JI ...; Page 2. DESIGN ANALYSIS

OF A STEWART PLATFORM FOR VEHICLE EMULATOR SYSTEMS by YOUHONG GONG ...

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Design and control of a simplified Stewart platform for endoscopy - all 3 versions » JM Wendlandt, SS Sastry - Decision and Control, 1994, Proceedings of the 33rd IEEE ... 1994 ieeexplore.ieee.org

... The design shares simi-larities with the Stewart Platform but has ... do not need the full motion of the Stewart platform. ... by rigid tubes and a spring-like device ...

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Design and development of a Stewart platform based force-torque sensor - all 2 versions » TA Dwarakanath, B Dasgupta, TS Mruthyunjaya - Mechatronics, 2001 - Elsevier

... analysed a similar structure and enumerated a few design criteria for the sensor structure. The concept of a passive Stewart platform with spring loaded legs ... Cited by 21 - Related Articles - Web Search

The Stewart platform manipulator: a review - all 4 versions » B Dasgupta, TS Mruthyunjaya - Mechanism and Machine Theory, 2000 - Elsevier

... analysed a similar structure and enumerated a few design criteria for the sensor structure. The concept of a passive Stewart platform with spring-loaded legs ... Cited by 181 - Related Articles - Web Search - BL Direct

Dynamic analysis and control of a Stewart platform manipulator - all 3 versions »

G Lbret, K Liu, FL Lewis - J ROB SYST, 1993 - doi.wiley.com

Page 1. Dynamic Analysis and Control of a Stewart Platform Manipulator ... In this article, we study the dynamic equations of the Stewart platform manipulator. ...

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Closed-form force sensing of a 6-axis force transducer based on the Stewart platform - all 3 versions »

CG Kang - Sensors & Actuators: A. Physical, 2001 - Elsevier

... Let the spring constant of springs mounted on the legs to be 87.5 N/mm, and the maximum ... The design parameters of the Stewart platform were selected in ...

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Modeling, simulation, and control of a hydraulic Stewart platform

D Li, SE Salcudean - Robotics and Automation, 1997 Proceedings, 1997 IEEE ..., 1997 - ieeexplore.ieee org

... For the Stewart platform considered here, the mass of the six legs is considerably ... coefficient (normally piston seal fric- tion). K is the spring constant of ...

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A six degree of freedom micromanipulator for ophthalmic surgery

KW Grace, JE Colgate, MR Glucksberg, JH Chun - Robotics and Automation, 1993, Proceedings, 1993 IEEE 1993 - ieeexplore.ieee.org

... the physical design of a Stewart Platform can be divided into two classes: (I) legs either pull or push against an antagonistic force (ie a spring pushes the ...

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concept of open-loop disturbance rejection and nonlin- ear spring design ...

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воокі Robotics and Manufacturing: Recent Trends in Research, Education, and Applications: Proceedings of ...

M Jamshidi - 1992 - Amer Society of Mechanical

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[воок] Fundamentals of Robotics

DD Ardayfio - 1987 - books.google.com

... Spring Design with an IBM PC, by Al Dietrich Mechanical Design Failure Analysis: With Failure Analysis System ... Stewart Platform Based on Regular Octahedron ...

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(CITATION) TOWARD AUTOMATION OF PATIENT-SPECIFIC FINITE ELEMENT MODELS FOR BONE GRAFTING OF FEMORAL HEAD ...

MJ Rudert, TD Brown - Advances in Bioengineering, 1971 - American Institute of Chemical Engineers Web Search - BL Direct

[crixaron] A Simplified Multi-Input Multi-Output Formulation for the Quantitative Feedback Theory Y Chair - Journal of Dynamic Systems, Measurement, and Control. 1971 - American Society of Mechanical Engineers



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WK Kim, JY Lee, BJ Yi - Robotics and Automation, 1997. Proceedings., 1997 IEEE ..., 1997 - jeeexplore, jeee, org ... approach, it is achieved by antagonistic redundant actuation ... first- and second-order kinematic analysis for the ... the compliance matrix, the stiffness matrix in ... Web Search

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Analysis of a 5-bar finger mechanism having redundant actuators with applications to stiffness and ...

BJ YI, IH Suh, SR Oh - Robotics and Automation, 1997, Proceedings, 1997 IEEE 1997 - jeeexplore jeee.org ... Analysis of A 5-bar Finger Mechanism Having ... system to modulate the end-point stiffness or motion ... via internal loads in redundantly actuated closedchain systems ... Weh Search

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... impedance property comes from the antagonistic activation of ... to deal with our further analysis of the ... of Fd remains constant, the effective stiffness matrix [K ... Related Articles - Web Search

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BJ Yi, JH Lee - Robotics and Automation, 1999. Proceedings. 1999 IEEE ..., 1999 - ieeexplore.ieee.org ... analysis and design of redundantly actuated linkage systems [2 ... restricted to modulation and analysis of stiffliess ... system to modulate the stiffness property or ...

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... of the Mechanisms For each type of planar parallel mechanism introduced in ... and for

the mechanisms with springs—can be thought of as the design space, in ...

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... Design Automat., vol ... Y.Imamura, "An instrumented compliant wrist using a parallel mechanism," Proc ... 17, T. A.McMahon, "Spring-like properties of muscles and ...

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SJ Ryu, JW Kim, JC Hwang, C Park, HS Cho, K Lee, Y ... - 1998 ASME International Mechanical Engineering Congress and ..., 1998

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Virtual model control of a bipedal walking robot - all 15 versions »

J Pratt. P Dilworth, G Pratt - Robotics and Automation, 1997, Proceedings., 1997 IEEE ..., 1997 -

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... for each serial link of this parallel mechanism in the ... third constraint provides

us with a design de- gree ... Figure 3: Spring Turkey, our bipedal walking robot. ...

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Static Balancing of Spatial Parallel Platform Mechanisms—Revisited - all 2 versions »

Ebert-Uphoff, CM Gosselin, T Laliberté - Journal of Mechanical Design, 2000 - link aip.org ... recently been introduced to the design of robotic ... Kumar discuss the use of springs

for gravity ... balancing of a planar parallel mechanism using counterweights or ...

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On the design of gravity-compensated six-degree-of-freedom parallelmechanisms

CM Gosselin, J Wang - Robotics and Automation, 1998. Proceedings. 1998 IEEE ..., 1998 - ieeexplore ieee.org
... a more general perspective, the design of a ... which is statically balanced using springs
will be ... spatial six-degree-of- freedom parallel mechanism with revolute ...

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[PDF] **Design** and evaluation of a high-performance haptic interface - all 6 versions » RE Ellis, OM Ismaeli, MG Lipsett - Robotica, 1996 - cs.queensu.ca

... possible to produce a fully parallel mechanism with six ... force measurements indicated



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T Laliberte, CM Gosselin, M Jean - Mechatronics, IEEE/ASME Transactions on, 1999 - jeeexplore, jeee org

... Index Terms-Dynamics, parallel mechanism, static balancing. ... A. Eight-Bar

Mechanism A planar 3-DOF parallel mechanism is shown in Fig. ...

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... the concept of open-loop disturbance rejection and nonlin- ear spring design. ... is

illustrated here in terms of a "fully parallel" mechanism consisting of R ...

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GA Pratt, MM Williamson - US Patent 5,650,704, 1997 - freepatentsonline.com

... et al., "An instrumented compliant wrist using a parallel mechanism." Japan/USA ... springs

are too efficient, ie, a given cylindrical spring design that attains a ...

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Design of multi-degree-of-freedom spring mechanisms: biomimeticapproach

BJ Yi, JH Lee, WK Kim, IH Suh - Intelligent Robots and Systems, 2000.(IROS 2000). ..., 2000 - ieeexplore leee org

... In the above five categories, previous spring design has been task-specific with

the systems unable to actively control (adjust) the spring rate independent of ...

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... springs. Initially, a planar parallel mechanism is employed to simulate the spring

behavior by redundant actuation. ... architecture for active spring design ...

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Simultaneous stiffness generation and internal load distribution inredundantly actuated mechanisms

BJ Yi, RA Freeman - Advanced Robotics, 1991. Robots in Unstructured Environments ..., 1991 - ieeexplore ieee.org

... the concept of open-loop disturbance rejection and nonlinear spring design. ... 4] designed

an active wrist, which has a parallel mechanism structure composed of ...

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... con-sisting of a pair of parallel springs where 2 ... is designed as a leaf-spring mechanism (Fig. ... is converted to tool displacement through a leaf-spring design. ...

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Limited slip differential recessed spring design - all 2 versions » JH Tanser, G Korol, JP Watsh... - US Patent 5,741,199, 1998 - freepatentsonline.com Title: Limited slip differential recessed spring design. Document Type ... 475/235, DIFFERENTIAL MECHANISM... Belleville springs could have parallel abutting conical ... Cited by 9 - Related Articles - Cached - Web Search

A prototype scanning stylus profilometer for rapid measurement of small surface areas - all 3 versions »

E Morrison - International Journal of Machine Tools and Manufacture, 1995 - Elsevier ... particularly in relation to the flexure **spring design** used on ... a flexure **spring based** traverse **mechanism** was designed ... pick-up in the x direction (**parallel** to the ... Cited by 9 - Related Articles - Web Search - BL Direct

The spring-and-lever balancing mechanism, George Carwardine and the Anglepoise lamp -